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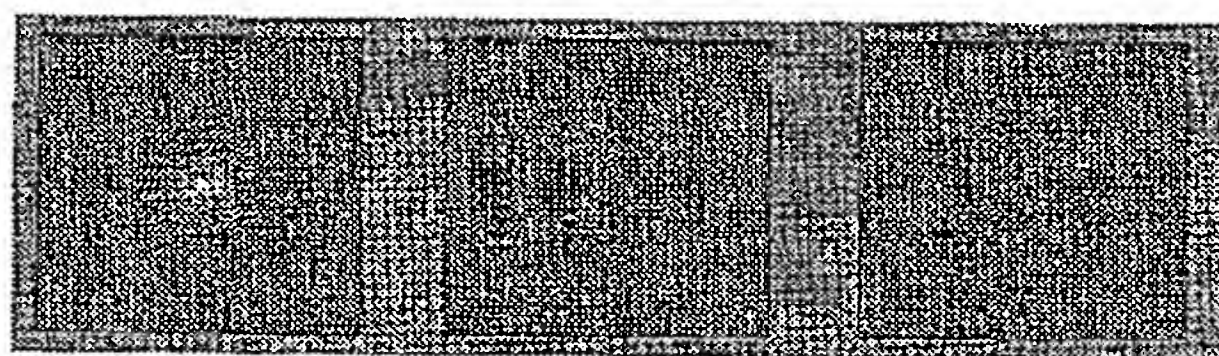
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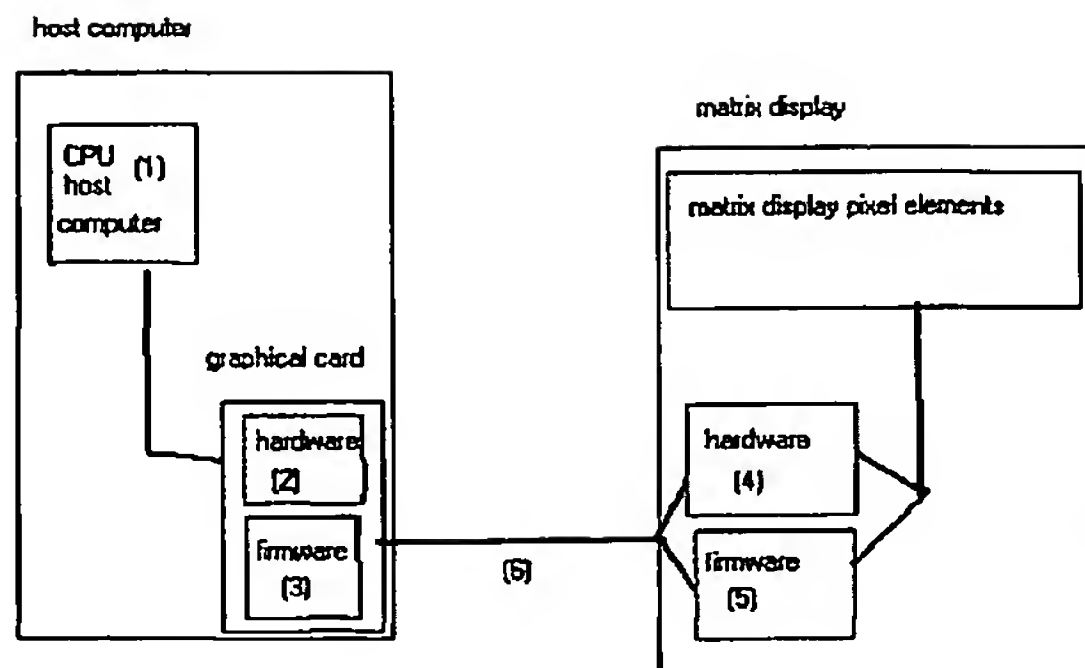
(54) Title: METHOD AND DEVICE FOR VISUAL MASKING OF DEFECTS IN MATRIX DISPLAYS BY USING CHARACTERISTICS OF THE HUMAN VISION SYSTEM



a

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(57) Abstract: The present invention provides a method for reducing the visual impact of defects present in a matrix display comprising a plurality of pixels, said pixels comprising at least three sub-pixels, each sub-pixel intended for generating a sub-pixel colour which cannot be obtained by a linear combination of the sub-pixel colours of the other sub-pixels of the pixel, the method comprising: providing a representation of a human vision system, characterising at least one defect sub-pixel present in the display, the defect sub-pixel intended for generating a first sub-pixel colour, the defect sub-pixel being surrounded by a plurality of non-defective sub-pixels, deriving drive signals for at least some of the plurality of non-defective sub-pixels in accordance with the representation of the human vision system and the characterising of the at least one defect sub-pixel, to thereby minimise an expected response of the human vision system to the defect sub-pixel, and driving at least some of the plurality of non-defective sub-pixels with the derived drive signals, wherein minimising the response of the human vision system to the defect subpixel comprises changing the light output value of at least one non-defective sub-pixel for generating another sub-pixel colour, said another sub-pixel colour differing from said first sub-pixel colour. The present invention also provides a

corresponding system for reducing the visual impact of defects present in a matrix display, and a matrix display with reduced visual impact of defects present in the display.



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